

## ABSTRACT

PAK4 and JIK, both of which bind to MKK7 and directly phosphorylate MKK7, were found in the present invention. The present invention provides an inhibitor of c-Jun phosphorylation caused by JNK3 and a method for inhibiting the same, and an agent for preventing and/or treating a disorder attributable to c-Jun phosphorylation caused by JNK3 and a method for preventing and/or treating the same, all of which comprise inhibiting one member selected from the following: the binding of PAK4 to MKK7, the phosphorylation of MKK7 by PAK4, the binding of JIK to MKK7, and the phosphorylation of MKK7 by JIK. Further, the present invention provides a method for identifying a compound that inhibits the binding of PAK4 to MKK7, the phosphorylation of MKK7 caused by PAK4, the binding of JIK to MKK7, or the phosphorylation of MKK7 caused by JIK, as well as the compound obtained thereby. Furthermore, the present invention provides a pharmaceutical composition containing an effective amount of at least one member selected from the group consisting of the aforementioned compound and the aforementioned inhibitor.